

## Product Description

Model YZ101C is a Type Y or Z pressurization unit designed to protect electrical equipment in Class II Hazardous Areas. When connected to a supply of protective gas, the Model YZ101C will supply, regulate and monitor the protective gas supply to a protected electrical enclosure. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 / Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 2 / Zone 2 areas. Type Y applications reduce the hazardous area rating inside the enclosure from Division 1 / Zone 1 to Division 2 / Zone 2. This allows Division 2 / Zone 2 equipment to operate in Division 1 / Zone 1 Hazardous Areas.

## Unit Operation

**Prior to Start-Up:** Ensure Protected Enclosure Power is OFF, Enclosure Pressure Control Regulator is closed, Protective Gas Supply is ON and alarm system is activated (if utilized). If utilized, test Purge Vent for proper operation. **Start-Up:** Remove all dust from protected enclosure. Close and seal Protected Enclosure. Open Enclosure Pressure Control Regulator until a "Safe" reading is shown on the Enclosure Pressure Gauge. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. Protected enclosure power should be de-energized if "Safe" pressure cannot be restored within a reasonable amount of time.

## Unit Specifications

Class II Maximum Enclosure Volume:	250 cubic feet
Universal Unit Weight:	5.5 lbs.
Vertical & Horizontal Unit Weights:	10.5 & 10.0 lbs.
Operating Temp. Range:	-20° F - 120° F
Protective Gas Supply:	* Air or Inert Gas
Supply Pressure w/ RR-8 Regulator:	5 psi maximum
Supply Pressure w/ PV-4 Vent:	80 - 125 psi maximum
Unit Supply Connection:	1/2" tube fitting
Enclosure Supply:	1/2" tube fitting
Enclosure Reference:	1/4" tube fitting
Safe Enclosure Pressure:	0.25" w.c.
Safe Pressure Flow Rate:	** 0.1 - 3.5 SCFH per cubic foot
Switch Set Point on Decrease:	0.15" w.c. ± 0.02"
Pressure Switch Conduit Port:	1/2" FPT
Pressure Switch Contact Ratings:	See EPSK Bulletin

- \* Air must contain no more than trace amounts of flammable vapors.
- \*\* Enclosure integrity determines safe pressure flow rate.

## Recommended Accessories

Redundant safety devices are necessary to protect the enclosure from excessive pressure of the protective gas supply in accordance with the requirements of NFPA 496, EN 50016 and IEC 60079-02.

Best Purging Systems Corporation therefore strongly recommends a Model RR-8 Redundant Regulator installed upstream of this unit's enclosure pressure control regulator. As an alternative, a Model PV-4 Spark Arresting Purge Vent may be installed on the protected enclosure or the last enclosure of a pressurized enclosure array to relieve excessive pressure created by other sources.



# Model YZ101C

## Type Y & Z

### Pressurization Unit

Class II Applications  
Up to 250 Cubic Feet

Technical Bulletin YZ101C TB-R0

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Universal Mount Unit  
less Pressure Switch for  
any side or panel mounting



Vertical Mount Unit  
with Pressure Switch for  
left or right side mounting



Horizontal Mount Unit  
with Pressure Switch for  
top or bottom side mounting



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## Rear Views



**Horizontal Mount Unit with Pressure Switch**

Enclosure Pressure Reference Connection  
Enclosure Pressure Gauge  
Atmospheric Reference



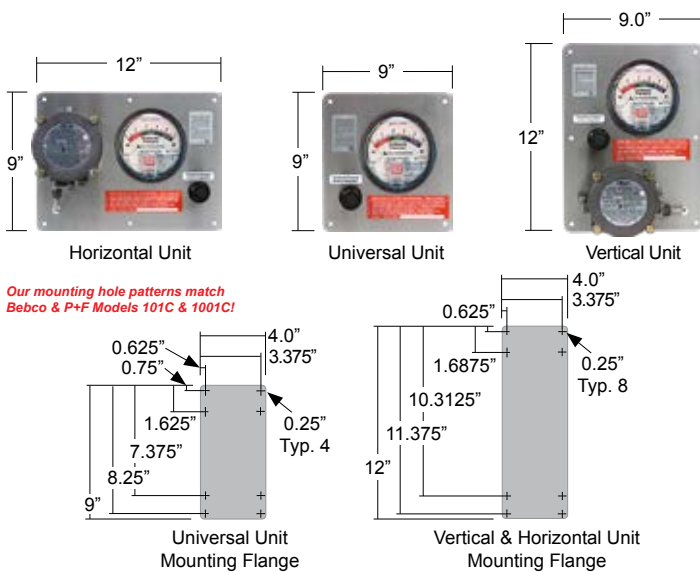
**Universal Mount Unit less Pressure Switch**

Unit Supply Connection  
Enclosure Pressure Control Regulator  
Enclosure Supply Connection



**Vertical Mount Unit with Pressure Switch**

## Unit & Mounting Flange Dimensions



## Model Number Matrix

**Typical Model Number:**

**YZ 101C-CII-L-U-\***

**Unit Type**

Y - Division 1 / Zone 1 to Division 2 / Zone 2  
Z - Division 2 / Zone 2 to Unclassified

**Unit Series**

101C - Pressurization Unit

**Area Classification**

CII - Class II Areas

**Pressure Switch Option**

L - Less Switch  
W - Class II, Group E, F & G Switch

**Mounting Configuration**

U - Universal V - Vertical H - Horizontal

**Special Option (omit if not applicable)**

*Please contact a Sales Associate for specifications and factory integration of Model PMGK Panel Mount Gasket Kits for Universal Mounting Configurations*

## Material Specifications

Unit Mounting Plate & Flange: 304 Stainless Steel  
Tube Fitting Bodies & Ferrules: 316 Stainless Steel  
Tube Fitting Compression Nut Coating: Molybdenum Disulfide  
Enclosure Pressure Gauge Lens: Acrylic w/ Neoprene O-Ring  
Enclosure Pressure Gauge Body: Cast Aluminum w/ Epoxy Finish  
Fastener Kit Sealing Screws: 316 Stainless Steel w/ Neoprene O-Ring  
Fastener Kit Sealing Washers: 18-8 Stainless Steel w/ Neoprene Washer  
Fastener Kit Locking Nuts: 316 Stainless Steel w/ Nylon Insert

Atmospheric Reference: 316 Stainless Steel Body & 304 SS Element  
Indelible Unit Nameplates: 3M Lexan™ w/ 3M VSB™ Adhesive  
Pressure Control Regulator Head & Knob: Acetal Polymer Plastic  
Pressure Control Regulator Body: Zinc w Buna N Elastomers  
Pressure Switch Body: Cast Aluminum w/ Epoxy Finish  
Pressure Switch Body Bolts: Zinc Plated Steel  
Pressure Switch Contacts: Mica Silver  
Enclosure Pressure Gauge & Switch Diaphragms: Fluorosilicone

## Unit & Protected Enclosure Accessory Bulletin Hyperlinks



**Model PV**  
Spark Arresting Pressure Vents  
Prevents excessive enclosure pressure upon unit regulator failure



**Model RR**  
Redundant Supply Pressure Regulators  
Prevents excessive enclosure pressure upon unit regulator failure



**Model BCK**  
Unit & Bulkhead Connection Kits  
Connects the unit and multiple protected enclosures of an array



**Model RAB & RAH**  
Remote Alarm Beacons & Horns  
Signals loss of protected enclosure safe pressure



**Model EPSK**  
Enclosure Pressure Switch Kits  
Complements universal mount units to activate audible or visual alarms



**Model EPWN & ETWN**  
Pressure & Temperature Warning Nameplates  
Provides NFPA required markings for protected enclosure doors and covers



**Model PMGK**  
Panel Mount Gasket Kits  
Converts universal mount units for panel mounting in protected enclosures

**One (1) Model EPWN Enclosure Warning Nameplate & One (1) Unit Flange or Panel Mount Fastener Kit furnished with all Units.**  
**All specifications subject to change without notice. Warranty & Liability policies available upon request.**